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TYPEWRITING OVER

A TELLGRAPH WIRE

A New Machine Which Takes a

Message and Delivers It at a Distance.

MUCH IS CLAIMED FOR IT

Would Be of Great Service to the Police and Fire Departments, the Investor Delivers.

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Would Be of Great Service to the Police and Fire Departments, and bare of which the believes in the Investor Delivers and the Automatic Delivers and the Automatic Delivers and the Automatic Delivers and the Automatic Delivers and the Service Automatic Delivers and the Auto

Recorded sounds would prevent the possibility of error in any shape or form, and this has been the goal of inventors —to manufacture a machine capable of recording or writing sounds. Working along these lines Prof. Elisha Gray, a coinventor with Prof. Graham Bell of the telephone, placed a machine on the mar-ket capable of transmitting hand writing. But this machine was then more or less in its infancy and found to be incapable of standing up to serious tests of its fficiency.

With the advent of the typewriter and its

firm hold on the public, electricians were set thinking of the practicability of using the typewriter for telegraphing. Ma-chines were put on the market which claimed to do this, but up to a short time ago they were not adopted commercially. Now, according to Dr. G. A. Cardwell who has studied the question, he has in-vented a practicable machine capable of transmitting messages with accuracy and speed. Moreover, it is commercially useful and is already in use throughout

the country.

These telegraphing typewriters are of familiar pattern and resemble the ordinary every day machine with the excep-tion that there is a round case on top which holds the special mechanism. As far as the operator is concerned the message is despatched in the same way that a type-writer is run and all that is seen on the machine is the type wheel spinning to

In the same way as the telegraph, the American telegraph typewriter, as the machine is called, is worked over one or two wires, which may be either telephone or telegraph wires. In one of the places where the machine is demonstrated the invention is used in conjunction with both the telephone and the telegraph and according to the officials of the company now exploiting the machine in New York communication may be established

lifficulties almost without limit, involved received. Time and accuracy are the it has been softened in the bath the mois-

many sacrifices financially, involved the giving up practically of all of his time, so that he was almost eliminated for the time being from the social world; but with the determination characteristic of the inventor, he and his associates persisted in the bart the moistwo terms of the greatest importance turns been softened in the bart the moistwo terms of the greatest importance turns been softened in the bart the moistwo terms of the greatest importance turns is worked out of the skin with a blunt wooden instrument. Then the flesh side is drawn carefully back and forth over a straight edged knife, which removes any flesh that may be clinging to the pelt and also evens it off.

writer.

If he is an expert Morse operator and the receiving operator happens to be just is absolutely governed by the speed of the new operator. He can only take it just so fast, and the expert must telegraph slowly or the man will not be able to translate the message. With the telegraph typewriter the message is received with out interruption and never stopped to have any part repeated. Any one, the inventor says, who can write a letter or message on an ordinary office typewriter can telegraph. The machine that is used as a receiving machine is also used as the sending machine by the turning of a key or switch.

The most important work of the railroad telegraph service is the train design of the inventor is an expert Morse operator and the prosent operator is used as a receiving operator happens to be just toon of the type wheel the operator must stop and start for every letter or character on the wheel.

With Dr. Cardwell's system it is claimed each letter is determined by two steps uninterrupted and the time required is only limited by the speed with which the wheel can be made to revolve; that is, set in motion and stopped.

No magnet in the telegraph typewriter works on different current strength, and it is immaterial whether the armature is pulled down slow or fast. That is, the machine will print anyhow, provided only the proper impulses are received in their proper sequence. This means that this machine will work under line conditions when even the Morse telegraph might not work, and it is also free from local troubles on account of loss of current for the same reasons.

in their investigations and experiments a patrol wagon or an engine, will intelligently instruct headquarters in an instant of time the exact conditions and what is needed, saving lives and property by so

The machine is so built that by the doing.

Or. Cardwell has invented for this par-

ONE WAY TO KILL 'EM.

Here's a Mosquito Slayer That Is Goo as Far as It Goes.

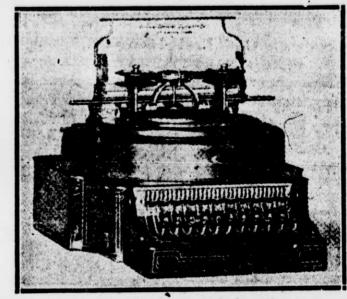
In a certain town not a hundred miles day a notice appeared to the effect that attempt to fly away. Then with slab any one desirous of an infallible method marked 'B' held in the other hand, bring of killing the pest could by sending a it sharply down on slab 'A.' This we quarter receive the information and the guarantee will kill any mosquito."

paraphernalia for exterminating

Many citizens thereupon sent the package by return of mail. In the package were two boards marked "A" and "B," rom New York city the inhabitants were and on a slip of paper the instructione, much worried by mosquitoes and the which read: "First catch the mosquito, riddance of the pest was one of the prin- taking care not to crush him in the process. cipal topics among the inhabitants. One wood marked 'A.' See that he does not

## American Telegraph Typewriter Co.

The American Telegraph Typewriter has come to stay. It is the completion of both the telegraph and telephone. It has the advantage of introducing itself to the world not as a new invention to be "tried out," but as something for which there is an immediate demand, that neither telephone nor telegraph can fill. It is attached to any ordinary telegraph or telephone line; is operated like an ordinary typewriter, and as the message appears upon the paper of the transmitting machine it simultaneously appears upon the paper of one or more receiving machines on the same circuit, as required.



#### Plain Type Now, Not Blind Signs

Since the invention of the telegraph in 1835 by Prof. Samuel F. B. Morse, inventive minds have striven, railroad and basiness men have hoped, for a machine that would instantly and automatically reproduce printed characters at both ends of or at any point upon a telegraph line—replacing the slow work of sending the Morse alphabet—a series of billiad signals unintelligible to any one but specially trained experts, and requiring translation. Incorrect translation of the receiver's "olicias" has often been costly. Over three hundred different models of printing telegraphs have been built—but either enormous cost, slowness of operation or limited radius prevented their commercial use.

#### Stands the Crucial Test

Inventors have spent years of toil and millions of money, knowing that success meant not only rich financial rewards, but also imperishable fame. After the typewriter was perfected, efforts to produce a printing telegraph took the form of the typewriter was perfected, efforts to produce a printing telegraph took the form of the typewriter was perfected, none were successful in standing the crucial commercial test—OPERATION OVER LONG DISTANCES. The most successful printing telegraph before the perfection of the American Telegraph Typewriter was what is known as the "ticker," used principally for stock quotations, but it is slow, requires a great amount of electrical energy, and can only be operated over comparatively short distances. EVEN WITH ALL THESE DEFECTS, ITHAS PROVED A VERY LARGE PROFIT MAKER TO INVESTORS IN ITS STOCK.

#### Results of 32 Years' Study

It was Dr. George A. Cardwell, the noted practical electrician, with wide experience in telegraphy and telephony, who finally solved the problem of devising a practical and perfect machine—ONE THAT CONFORMS TO EVERY REQUIREMENT OF COMMERCIAL USE. His labors in perfecting this machine, the American Telegraph Typewritor, have covered the last thirty-two years.

This machine does not differ materially in appearance from the ordinary commercial typewriter, is about the same size, has the standard keyboard, and sends messages any distance which the telegraph or telephone can cover.

#### "Look" not "Listen"

Until to-day telegraph operators always received messages by sound—that is by liatening to the taps as the dots and dashes are ticked off by the sounder. By the car, not by eye. Now we have changed all that. The only PERFECT telegraph operator, THE AMERICAN TELEGRAPH TYPEWRITER, makes the modern motto for all telegraphers, "LOOK."

Haste That SAVES Waste With its visible writing, the American Telegraph Typewriter prints the message before your eyes in plain type. IN LESS THAN HALF THE TIME required by the Morse system.



VIEW OF FACTORY.



#### MACHINERY FLOOR.

Work and Words Agree

Mr. L. S. Weils, after more than a year's use of it on the Pennsylvania's Long Island Pivision, wrote: "The system will prove a most valuable substitute for present methods, and its use will be many times greater than that of the Morse." Mr. J. A. McClary, of the Suburban Motor Transit Co., made for a Savings Bank President who employed him as an electrical expert, a special investigation of the Telegraph Typewriter, and reported so favorably that the Bank President and a number of his friends are stockholders in our Company. In this report Mr. McClary says among other things:—
"Dr. Cardwell has solved the greatest problem of automatic electricity."
"I am of the opinion that it is the greatest electrical invention of the century."
"I believe this will be a splendid money maker."
"It is highly commercial ... a page printer ... a record ... absolutely reliable."

reliable."
The fact is that this is the ONLY "page printer," the ONLY printing telegraph that is practical for both long and short distance and for universal commercial use. Handled Heaviest R. R. Work

The American Telegraph Typewriter did not achieve its present position and demand merely by being exhibited, or "demonstrated." As before stated, it has for over a year done its regular daily work for the Pennsylvania Ratiroad Company, between Flatbush and Long Island City on the Long Island Division, where there is the heaviest volume of trame. That it proved itself is shown by the fact that we are now finishing for the Pennsylvania additional machines, which will be among the next delivered.

Among Its Users

New York Central Railroad

Other deliveries, as fast as the factory can finish machines, will be to those who have seen the work and placed orders. Among these are:—

#### Delaware, Lackawanna & Western Raliroad Southern Railway The Southeastern Line General Electric Co. Baldwin Locomotive Works

Main Office: 27 WILLIAM STREET, New York Factory: PROSPECT & PEARL STREETS, Brooklyn

# G. GAUDIG & BLUM Becker Bros. & Co.

Fur Merchants

have just removed to their new, splendidly equipped warehouse at

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## **FUR**

Exceptional facilities will enable

them to render a service of even more pronounced efficiency than in the past.

## The Rice Gas Engine Co.

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